# Biolob A KIK Custom Products Company

# SAFETY DATA SHEET

Revision Date 29-Aug-2023 Version 17

## Section 1: Identification

Product identifier

Product Name Armour

Product Code A-0924

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool chemical.

**Uses advised against** Do not mix with other chemicals.

Details of manufacturer or importer

**Supplier** 

BIOLAB AUSTRALIA PTY LTD 1 Susan Street Hindmarsh SA 5007 AUSTRALIA

PHONE: (AU) 1800 635 743

For further information, please contact

Contact Point Customer Service: 0 800 441 662 (NZ)

Customer Service: 1800 635 743 (AU)

E-mail address BiolabAU@biolabinc.com

Emergency telephone number

Emergency telephone number In an Emergency: Dial 000 (AU)

For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL

HOURS: AU 1800 127 406

## Section 2: Hazard(s) identification

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

#### **GHS Classification**

Oxidising solids	Category 2
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 1

#### Label elements



#### Signal word DANGER

#### **Hazard statements**

May intensify fire; oxidiser
Harmful if swallowed
Causes serious eye irritation
May cause respiratory irritation
May be harmful if inhaled
Causes skin irritation
Very toxic to aquatic life
Contact with acids liberates toxic gas

#### **Precautionary Statements - Prevention**

Read carefully and follow all instructions

Wear eye/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapours/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Avoid release to the environment

Take any precaution to avoid mixing with combustibles

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before re-use

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISONS INFORMATION CENTRE or doctor

Call a POISONS INFORMATION CENTRE or doctor if you feel unwell

IF SWALLOWED: Call a POISONS CENTRE or doctor if you feel unwell

Rinse mouth Collect spillage

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards which do not result in classification

May be harmful in contact with skin.

# Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%
Sodium Dichloro-S-Triazinetrione	2893-78-9	>60
Non-hazardous ingredients	Proprietary	Balance

#### Section 4: First aid measures

#### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. IF exposed or concerned: Get medical

advice/attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor or poisons information centre immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more

information. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/or wheezing. Difficulty in breathing. May cause redness and tearing of the

eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to doctors**Treat symptomatically.

#### Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable extinguishing equipment Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Special protective actions for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of

dust. Do not breathe dust. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

re-use. Avoid breathing vapours or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and

eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

**Incompatible materials**None known based on information supplied.

## Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure

limits

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering controls Showers** 

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Wear suitable protective clothing. Skin and body protection

Hand protection Wear suitable gloves.

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

certified respirators.

**Environmental exposure controls** No information available.

Thermal hazards No information available.

## Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Solid Physical state **Appearance** aranules Colour white

Odour faint halogen.

**Odour threshold** No information available

Remarks • Method Property Values 4.5 Saturated aqueous solution

Melting point / freezing point 240 °C Decomposes Boiling point/boiling range No data available None known Flash point No data available None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known None known

Flammability Limit in Air

Upper flammability limit: No information available

Lower flammability limit: No information available

Vapour pressure No data available None known Vapour density No data available None known Relative density No data available None known

No data available 250 g/L Water solubility

Solubility(ies) No data available None known **Partition coefficient** No data available None known No data available **Auto-ignition temperature** None known No information available **Decomposition temperature** None known No data available Kinematic viscosity None known Dynamic viscosity No data available None known

**Explosive properties** No information available No information available **Oxidising properties** 

Other information

Softening point Not available Molecular weightNo data availableVOC contentNo information availableDensity0.90 - 0.93 g/cm3Bulk densityNo data availableParticle characteristicsNo information available

## Section 10: Stability and reactivity

Reactivity

**Reactivity** Do not mix with other chemicals. Do not mix with different types of chlorinating chemicals.

Do not allow contact with combustible material such as paper, fabric, saw dust and

kerosene. May explode with combustibles.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid

Conditions to avoid Excessive heat.

Incompatible materials

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products

Hazardous Decomposition Products Halogen containing gases. Carbon oxides. Chlorine gas. Bromine gas.

# Section 11: Toxicological information

#### **Acute toxicity**

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Irritating to respiratory system. Specific test data for the substance or mixture is not

available. Fatal if inhaled. (based on components). May cause irritation of respiratory tract.

**Eye contact** Risk of serious damage to eyes. Specific test data for the substance or mixture is not

available. Causes serious eye irritation. (based on components). May cause redness,

itching, and pain.

Skin contact Irritating to skin. Contact with moist skin may cause skin burns. Causes burns. May be

harmful in contact with skin. Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in

contact with skin.

**Ingestion** Harmful if swallowed. Specific test data for the substance or mixture is not available.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if

swallowed. (based on components).

Symptoms Coughing and/or wheezing. Difficulty in breathing. May cause redness and tearing of the

eyes.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 500.00 mg/kg

 ATEmix (dermal)
 4,081.60 mg/kg

 ATEmix (inhalation-dust/mist)
 0.270 mg/l

#### Unknown acute toxicity

15 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium	= 735 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 50 mg/L ( Rat ) 1 h
Dichloro-S-Triazinetrione			

See section 16 for terms and abbreviations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## Section 12: Ecological information

**Ecotoxicity** 

**Aquatic ecotoxicity** 

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

#### environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium	-	LC50: 0.13 mg/L (96h,	-	EC50: 0.28 mg/L (48h,
Dichloro-S-Triazinetrione		Salmo gairdneri)		Daphnia magna)

**Terrestrial ecotoxicity** There is no data for this product.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Mobility** 

**Mobility** No information available.

Other adverse effects

Other adverse effects No information available.

## Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not re-use empty containers.

See section 8 for more information

# **Section 14: Transport information**

Note: Limited quantity (LQ) exception is possible

ADG

UN Number UN1759

**Proper shipping name** Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) 8
Packing Group III

**IATA** 

UN number or ID number UN1759

Proper shipping name Corrosive solid, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) 8
Packing group | |

**Description** UN1759, Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione), 8, III

IMDG

**UN number or ID number** UN1759

Proper shipping name Corrosive solid, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) Ш **Packing Group** F-A. S-B **EmS-No** 

Description UN1759, Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione), 8, III

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available

## Section 15: Regulatory information

#### Regulatory information

#### National regulations

#### Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). See section 8 for national exposure control parameters

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 

#### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Sodium Dichloro-S-Triazinetrione - 2893-78-9	Present	-

#### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

#### Major hazard (accident/incident planning) regulation

Verify that license requirements are met

Threshold quantity (T) Hazardous chemical 200

Materials that meet the criteria for Toxic in table 15.3

**International Inventories** 

Complies. **AICS NZIoC** Complies.

**TSCA** Contact supplier for inventory compliance status. **DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status.

Legend:

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### Section 16: Other information

Revision Date 29-Aug-2023

**Revision Note** 

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Program

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

<sup>\*\*\*</sup>Indicates updated data since last publication.

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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

## Australia

Australia SDS version information - UGHS

UL release: **GHS** Revision 7 2022 Q1

Australia

Partial process, including GHS Wizard, NO TW

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Document Review** ATTENTION!

Specific target organ toxicity (single exposure)

Category 3

Category 3 Target organ effects: Respiratory irritation.

section 3

Full text of H-Statements referred to under EUH031 - Contact with acids liberates toxic gas H272 - May intensify fire; oxidiser H302 - Harmful if swallowed H319 - Causes serious eye irritation H335 - May cause respiratory irritation H400 - Very

toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Composition

85